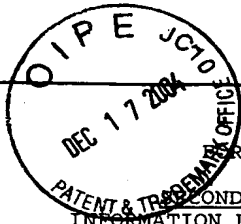


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**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
2060.0110001/EKS/HCC/M-M

APPLICATION NO.
09/633,364

APPLICANT
FIKES et al.

FILING DATE
August 7, 2000

GROUP
1642

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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	AJ1	2002/0168374 A1	11/14/2002	Kubo et al.			03/20/1997
	AK1	2002/0177694 A1	11/28/2002	Sette et al.			02/03/1998

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
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	AN4	WO 96/03140 A1	02/08/1996	WIPO			Yes No
	AO4	WO 97/04802 A1	02/13/1997	WIPO			Yes No
	AP						Yes No

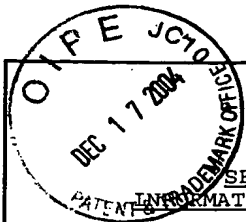
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>31</u>	Boon, T., "Tumor antigens recognized by cytolytic T lymphocytes: present perspectives for specific immunotherapy," <i>Int. J. Cancer</i> 54:177-180, Wiley-Liss, Inc. (May 1993)
AS	<u>31</u>	Cotran, R.S., et al., "Neoplasia," in <i>Robbins Pathologic Basis of Disease</i> , 4 th ed., W.B. Saunders Staff, ed., W.B. Saunders Company, Philadelphia, PA, pp. 296-299 (1989)
AT	<u>31</u>	Kawashima, I., et al., "The Multi-epitope Approach for Immunotherapy for Cancer: Identification of Several CTL Epitopes from Various Tumor-Associated Antigens Expressed on Solid Epithelial Tumors," <i>Hum. Immunol.</i> 59:1-14, Elsevier Science, Inc. (January 1998)

EXAMINER

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2060.0110001/EKS/HCC/M-MAPPLICATION NO.
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1642

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	2002/0098197 A1	04/25/2002	Sette et al.			05/30/1995
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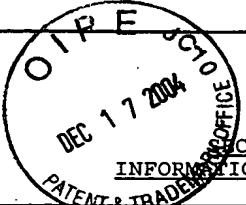
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>32</u>	Knuth, A., et al., "Cellular and humoral immune responses against cancer: implications for cancer vaccines," <i>Curr. Opin. Immunol.</i> 3:659-664, Current Biology, Ltd. (1991)
	AS	<u>32</u>	Toes, R.E.M., et al., "Enhancement of Tumor Outgrowth Through CTL Tolerization After Peptide Vaccination Is Avoided by Peptide Presentation on Dendritic Cells," <i>J. Immunol.</i> 160:4449-4456, The American Association of Immunologists (May 1998)
	AT	<u>32</u>	Copy of co-pending U.S. application 08/205,713, inventor Grey, filed March 4, 1994 (NOT PUBLISHED).

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	APPLICANT FIKES et al.	
	FILING DATE August 7, 2000	GROUP 1642

U.S. PATENT DOCUMENTS

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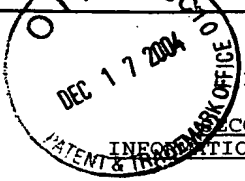
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	33	Copy of co-pending U.S. application 08/344,824, inventors Sette et al., filed November 23, 1994 (NOT PUBLISHED).
AS	33	Copy of co-pending U.S. application 08/347,610, inventors Kubo et al., filed December 1, 1994 (NOT PUBLISHED).
AT	33	Copy of co-pending U.S. application 09/017,524, inventors Kubo et al., filed February 3, 1998 (NOT PUBLISHED).

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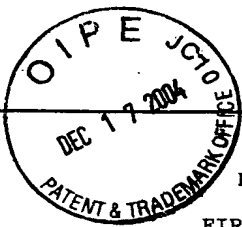
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	34	Copy of co-pending U.S. application 10/168,507, inventors Fikes et al., filed December 20, 2000 (PUBLISHED AS WO 01/45728)
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2060.0110001/EKS/HCC/M-MAPPLICATION NO.
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August 7, 2000GROUP
1642**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AG1	5,200,320	04/06/1993	Sette et al.			12/07/1987
	AH1	5,503,829	04/02/1996	Ladant et al.			11/07/1994
	AI1	6,034,214	03/07/2000	Boon et al.			12/13/1994
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL3	EP 0 044 710 A1	01/27/1982	Europe			Yes No
	AM3	EP 0 226 513 A1	06/24/1987	Europe			Yes X No
	AN3	WO 92/02543 A1	02/20/1992	WIPO			Yes No
	AO3	WO 92/12996 A2	08/06/1992	WIPO			Yes No
	AP3	WO 92/21033 A1	11/26/1992	WIPO			Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>13</u>	Aichele, P., et al., "Antiviral cytotoxic T cell response induced by in vivo priming with a free synthetic peptide," <i>J. Exp. Med.</i> 171:1815-1820, Rockefeller University Press (1990)
	AS	<u>13</u>	Alexander, J., et al., "Derivation of HLA-A11/K ^b Transgenic Mice. Functional CTL Repertoire and Recognition of Human A11-Restricted CTL Epitopes," <i>J. Immunol.</i> 159:4753-4761, The American Association of Immunologists (November 1997)
	AT	<u>13</u>	Bergmann, C.C., et al., "Differential Effects of Flanking Residues on Presentation of Epitopes from Chimeric Peptides," <i>J. Virol.</i> 68:5306-5310, American Society for Microbiology (August 1994)

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	AM4	WO 94/11738 A1	05/26/1994	WIPO			Yes X No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>14</u>	Bertoni, R., et al., "Human Histocompatibility Leukocyte Antigen-binding Supermotifs Predict Broadly Cross-reactive Cytotoxic T Lymphocyte Responses in Patients with Acute Hepatitis," <i>J. Clin. Invest.</i> 100:503-513, The American Society for Clinical Investigation, Inc. (August 1997)
	AS	<u>14</u>	Bertoni, R., et al., "Human Class I Supertypes and CTL Repertoires Extend to Chimpanzees," <i>J. Immunol.</i> 161:4447-4455, American Association of Immunologists (October 1998)
	AT	<u>14</u>	Bjorkman, P.J., et al., "Structure of the human class I histocompatibility antigen, HLA-A2," <i>Nature</i> 329:506-512, Macmillan Publishers, Ltd. (1987)

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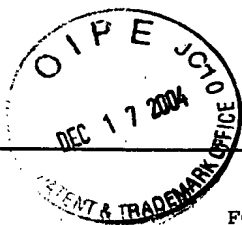
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>15</u>	Bjorkman, P.J., et al., "The foreign antigen binding site and T cell recognition regions of class I histocompatibility antigens," <i>Nature</i> 329:512-518, Macmillan Publishers, Ltd. (1987)
	AS	<u>15</u>	Buus, S., et al., "Autologous Peptides Constitutively Occupy the Antigen Binding Site on Ia," <i>Science</i> 242:1045-1047, American Association for the Advancement of Science (1988)
	AT	<u>15</u>	Corr, M., et al., "Endogenous Peptides of a Soluble Major Histocompatibility Complex Class I Molecule, H-2L ^d , Sequence Motif, Quantitative Binding, and Molecular Modeling of the Complex," <i>J. Exp. Med.</i> 176:1681-1692, Rockefeller University Press (December 1992)

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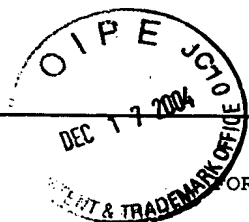
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	16	De Bruijn, M.L.H., et al., "Peptide loading of empty major histocompatibility complex molecules on RMA-S cells allows the induction of primary cytotoxic T lymphocyte responses," <i>Eur. J. Immunol.</i> 21:2963-2970, VCH Verlagsgesellschaft mbH (1991)
	AS	16	Del Val, M., et al., "Efficient Processing of an Antigenic Sequence for Presentation by MHC Class I Molecules Depends on Its Neighboring Residues in the Protein," <i>Cell</i> 66:1145-1153, Cell Press (1991)
	AT	16	Deres, K., et al., "In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine," <i>Nature</i> 342:561-564, Macmillan Publishers, Ltd. (1989)

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	APPLICANT FIKES et al.	
	FILING DATE August 7, 2000	GROUP 1642

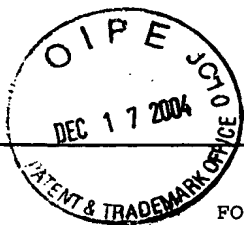
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	17	DiBrino, M., et al., "HLA-A1 and HLA-A3 T Cell Epitopes Derived from Influenza Virus Proteins Predicted from Peptide Binding Motifs," <i>J. Immunol.</i> 151:5930-5935, The Association of Immunologists (December 1993)	
AS	17	Ding, Y.-H., et al., "Two Human T Cell Receptors Bind in a Similar Diagonal Mode to the HLA-A2/Tax Peptide Complex Using Different TCR Amino Acids," <i>Immunity</i> 8:403-11, Cell Press (April 1998)	
AT	17	Eisenlohr, L.C., et al., "Flanking Sequences Influence the Presentation of an Endogenously Synthesized Peptide to Cytotoxic T Lymphocytes," <i>J. Exp. Med.</i> 175:481-487, The Rockefeller University Press (February 1992)	

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>18</u>	Foon, K.A., "Biological Response Modifiers: The New Immunotherapy," <i>Cancer Res.</i> 49:1621-1639, American Association for Cancer Research (1989)
AS	<u>18</u>	Geysen, H.M., et al., "Cognitive Features of Continuous Antigenic Determinants," <i>J. Mol. Recognit.</i> 1:32-41, Heyden & Sons, Ltd. (1988)
AT	<u>18</u>	Guo, H.-C., et al., "Different length peptides bind to HLA-Aw68 similarly at their ends but bulge out in the middle," <i>Nature</i> 360:364-366, Macmillan Publishers, Ltd. (November 1992)

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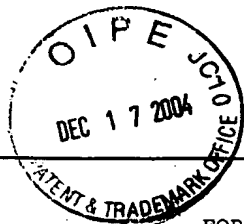
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	AR	19	Hill, A., et al., "Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7," <i>Eur. J. Immunol.</i> 25:18-24, VCH Verlagsgesellschaft mbH (January 1995)
	AS	19	Ishioka, G.Y., et al., "Utilization of MHC Class I Transgenic Mice for Development of Minigene DNA Vaccines Encoding Multiple HLA-Restricted CTL Epitopes," <i>J. Immunol.</i> 162:3915-3925, The American Association of Immunologists (April 1999)
	AT	19	Jameson, S.C., and Bevan, M.J., "Dissection of major histocompatibility complex (MHC) and T cell receptor contact residues in a K ^b -restricted ovalbumin peptide and an assessment of the predictive power of MHC-binding motifs," <i>Eur. J. Immunol.</i> 22:2663-2667, VCH Verlagsgesellschaft mbH (October 1992)

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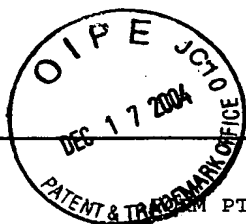
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	AR	<u>20</u>	Kannagi, M., et al., "Target Epitope in the Tax Protein of Human T-Cell Leukemia Virus Type I Recognized by Class I Major Histocompatibility Complex-Restricted Cells," <i>J. Virol.</i> 66:2928-2933, American Society for Microbiology (May 1992)
	AS	<u>20</u>	Kast, W.M., et al., "Protection against lethal Sendai virus infection by <i>in vivo</i> priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," <i>Proc. Natl. Acad. Sci. USA</i> 88:2283-2287, National Academy Press (1991)
	AT	<u>20</u>	Kast, W.M., et al., "Strict peptide length is not required for the induction of cytotoxic T lymphocyte-mediated antiviral protection by peptide vaccination," <i>Eur. J. Immunol.</i> 23:1189-1192, VCH Verlagsgesellschaft mbH (May 1993)

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	APPLICANT FIKES et al.	
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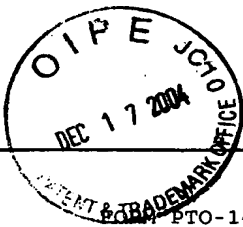
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	21	Lipford, G.B., et al., "Primary in Vivo Responses to Ovalbumin. Probing the Predictive Value of the K ^b Binding Motif," <i>J. Immunol.</i> 150:1212-1222, The American Association of Immunologists (February 1993)	
AS	21	Maryanski, J.L., et al., "Synthetic peptides as antigens and competitors in recognition by H-2-restricted cytolytic T cells specific for HLA," <i>J. Exp. Med.</i> 167:1391-1405, Rockefeller University Press (1988)	
AT	21	Maryanski, J.L., et al., "Competitor Analogs for Defined T Cell Antigens: Peptides Incorporating a Putative Binding Motif and Polyproline or Polyglycine Spacers," <i>Cell</i> 60:63-72, Cell Press (1990)	

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U.S. PATENT DOCUMENTS

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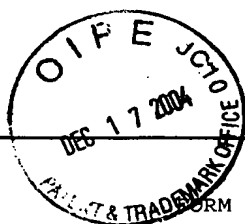
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>22</u>	Niedermann, G., et al., "The proteolytic fragments generated by vertebrate proteosomes: Structural relationships to major histocompatibility complex class I binding peptides," <i>Proc. Natl. Acad. Sci. USA</i> 93:8572-8577, National Academy Press (August 1996)
	AS	<u>22</u>	Ochoa-Garay, J., et al., "The ability of peptides to induce cytotoxic T cells in vitro does not strongly correlate with their affinity for the H-2L ^d molecule: implications for vaccine design and immunotherapy," <i>Mol. Immunol.</i> 34:273-281, Elsevier Science, Ltd. (February 1997)
	AT	<u>22</u>	Pamer, E.G., et al., "Precise prediction of a dominant class I MHC-restricted epitome of <i>Listeria monocytogenes</i> ," <i>Nature</i> 353:852-855, Macmillan Publishers, Ltd. (1991)

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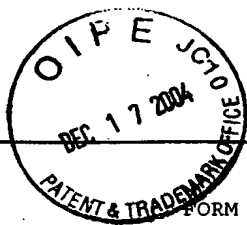
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>23</u>	Parham, P., et al., "The Origins of HLA-A,B,C Polymorphism," <i>Immunol. Rev.</i> 143:141-180, Munksgaard (February 1995)
	AS	<u>23</u>	Reddehase, M.J., et al., "A pentapeptide as minimal antigenic determinant for MHC class I-restricted T lymphocytes," <i>Nature</i> 337:651-653, Macmillan Publishers, Ltd. (1989)
	AT	<u>23</u>	Romero, P., et al., "H-2K ^d -restricted Antigenic Peptides Share a Simple Binding Motif," <i>J. Exp. Med.</i> 174:603-612, Rockefeller University Press (1991)

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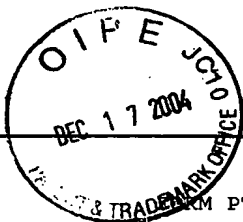
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	24	Röttschke, O., et al., "Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells," <i>Nature</i> 348:252-254, Macmillan Publishers, Ltd. (1990)
	AS	24	Röttschke, O., et al., "Characterization of Naturally Occurring Minor Histocompatibility Peptides Including H-4 and H-Y," <i>Science</i> 249:283-287, American Association for the Advancement of Science (1990)
	AT	24	Röttschke, O., and Falk, K., "Naturally-occurring peptide antigens derived from the MHC class-I-restricted processing pathway," <i>Immunol. Today</i> 12:447-455, Elsevier Science Publishers, Ltd. (1991)

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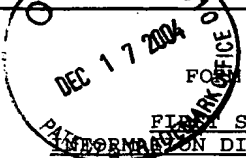
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AR	25	Rotzschke, O., et al., "Peptide motifs of closely related HLA class I molecules encompass substantial differences," <i>Eur. J. Immunol.</i> 22:2453-2456, VCH Verlagsgesellschaft mbH (September 1992)	
AS	25	Röttschke, O., and Falk, K., "Origin, structure and motifs of naturally processed MHC class II ligands," <i>Curr. Opin. Immunol.</i> 6:45-51, Current Biology, Ltd. (February 1994)	
AT	25	Rudinger, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A., ed., University Park Press, Baltimore, MD, pp.1-7 (1976)	

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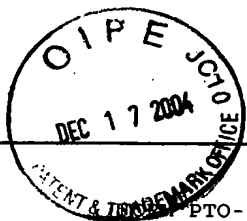
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	AR	<u>26</u>	Schulz, M., et al., "Major histocompatibility complex binding and T cell recognition of a viral nonapeptide containing a minimal tetrapeptide," <i>Eur. J. Immunol.</i> 21:1181-1185, VCH Verlagsgesellschaft mbH (1991)
	AS	<u>26</u>	Sette, A., et al., "Prediction of major histocompatibility complex binding regions of protein antigens by sequence pattern analysis," <i>Proc. Natl. Acad. Sci. USA</i> 86:3296-3300, National Academy Press (1989)
	AT	<u>26</u>	Sette, A., et al., "The Relationship Between Class I Binding Affinity and Immunogenicity of Potential Cytotoxic T Cell Epitopes," <i>J. Immunol.</i> 153:5586-5592, The American Association of Immunologists (December 1994)

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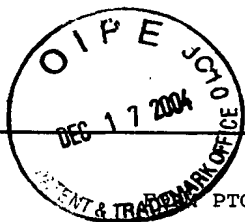
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	27	Shastri, N., et al., "Presentation of Endogenous Peptide/MHC Class I Complexes Is Profoundly Influenced by Specific C-Terminal Flanking Residues," <i>J. Immunol.</i> 155: 4339-4346, The American Association of Immunologists (November 1995)
	AS	27	Sherman, L.A., et al., "Extracellular Processing of Peptide Antigens That Bind Class I Major Histocompatibility Molecules," <i>J. Exp. Med.</i> 175:1221-1226, The Rockefeller University Press (May 1992)
	AT	27	Sidney, J., et al., "Several HLA Alleles Share Overlapping Peptide Specificities," <i>J. Immunol.</i> 154:247-259, The American Association of Immunologists (January 1995)

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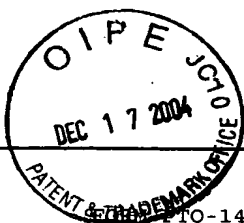
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	28	Threlkeld, S.C., et al., "Degenerate and Promiscuous Recognition by CTL of Peptides Presented by the MHC Class I A3-like Superfamily. Implications for Vaccine Development," <i>J. Immunol.</i> 159:1648-1657, The American Association of Immunologists (August 1997)
	AS	28	Wentworth, P.A., et al., "Differences and similarities in the A2.1-restricted cytotoxic T cell repertoire in humans and human leukocyte antigen-transgenic mice," <i>Eur. J. Immunol.</i> 26:97-101, VCH Verlagsgesellschaft mbH (January 1996)
	AT	28	Whitton, J.L., et al., "Molecular Analyses of a Five-Amino-Acid Cytotoxic T-Lymphocyte (CTL) Epitope: an Immunodominant Region Which Induces Nonreciprocal CTL Cross-Reactivity," <i>J. Virol.</i> 63:4303-4310, American Society for Microbiology (1989)

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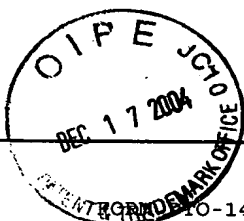
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	29	Yewdell, J.W., and Bennink, J.R., "Cell Biology of Antigen Processing and Presentation to Major Histocompatibility Complex Class I Molecule-Restricted T Lymphocytes," <i>Adv. Immunol.</i> 52:1-123, Academic Press (July 1992)
	AS	29	York, I.A., and Rock, K.L., "Antigen processing and presentation by the class I major histocompatibility complex," <i>Annu. Rev. Immunol.</i> 14:369-396, Annual Reviews, Inc. (April 1996)
	AT	29	Parker, K.C., et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," <i>J. Immunol.</i> 152:163-175, The American Association of Immunologists (January 1994)

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1642**U.S. PATENT DOCUMENTS**

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>30</u>	Dialog File 351, Accession No. 7180926, Derwent WPI English language abstract for EP 0 226 513.
	AS	<u>30</u>	Dialog File 351, Accession No. 9263567, Derwent WPI English language abstract for WO 92/21033.
	AT	<u>30</u>	Dialog File 351, Accession No. 9888606, Derwent WPI English language abstract for WO 94/11738.

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